

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: FIELDING, VICTOR )

Application No.: 09/896,240 )

Filing Date: 06/29/01 )

For: CONNECTOR ADAPTOR )

Art Unit: UNKNOWN )



**TRANSMITTAL OF PRIORITY DOCUMENT**

Director for Patents and Trademarks  
Washington, D.C. 20231

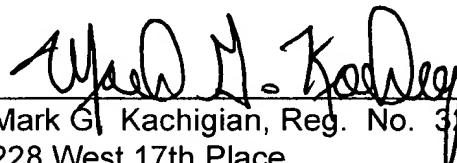
Dear Sir:

Enclosed herewith is a certified copy of British Patent Application No. 0018426.7  
for which the above-identified patent application claims priority from.

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undersigned as soon as possible.

Respectfully Submitted

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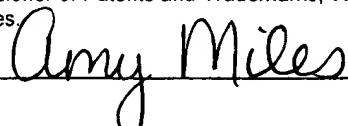
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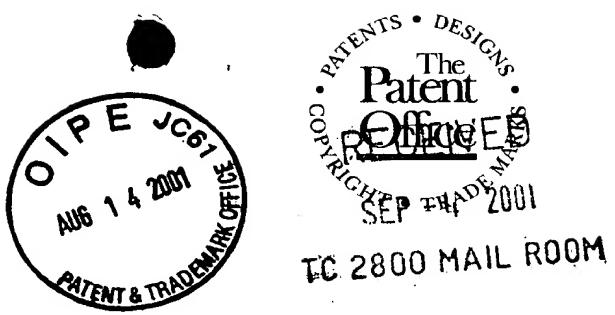
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Signed

*J. Evans.*

Dated

20 June 2001



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Description 28 JUN 2000

Claims 1

Abstract

Drawing(s)

1

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## Priority Documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Form 7/77)

Request for preliminary examination and search (Patents Form 9/77)

Request for substantive examination (Patents Form 10/77)

Any other documents  
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11. I/We request the grant of a patent on the basis of this application

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### Scart to Phono Converter

The invention to which this application relates is a conversion means which allows connection between apparatus provided with what is known as a "phono" connection and apparatus which is provided with a connector which is known as a "scart" connector.

At the present time, it can be the case that although two items of apparatus can be theoretically connected to perform a desired function, the same cannot be connected because one item of apparatus is provided with the first type of connection means in a first format such as a phono connector and the second item of apparatus is provided with a connection means in a different format such as a scart connector which two connector types and formats are incompatible. This therefore means that the apparatus cannot then be used together which can be frustrating for the owner of the apparatus.

It is typically found that apparatus which is manufactured for the market place in Europe, use scart connectors for interconnecting video and audio signal carrying apparatus. In other markets such as the Americas and Australia, phono connectors are used. Conventionally, in order to allow the apparatus to be converted to allow the reception of phono or scart connectors, a new circuit board is required to be laid out with further components provided thereon and the circuit board is then tested and produced. This can be expensive, time consuming and may cause faults to be introduced which were not previously in the phono or scart format apparatus.

The aim of the present invention is to allow the same printed circuit board to be used for all markets, thereby overcoming the

need for a new circuit board to be created for scart or phono apparatus.

In a first aspect of the invention there is provided electrical apparatus for the processing of video and/or audio data and which apparatus can include a printed circuit board carrying processing components thereon and wherein the printed circuit board is provided with at least two scart connections for the connection of further apparatus thereto and to the transfer of data between said apparatus, and there is further provided for selective attachment to the two scart connections, a connector, said connector provided with two scart connectors for connection with the said apparatus, and a series of outputs for the selective connection thereto of phono and/or other formats connectors.

In accordance with the invention, the original printed circuit boards in the apparatus can continue to be used for all markets and thus reduces the development and production costs. It also reduces the time to market for products that are required to be sold in various market places and this can be achieved by the selective use of the connector as herein described.

A specific embodiment of the invention is described with reference to Figures 1 and 2, wherein:-

Figure 1 illustrates the edge of a printed circuit board 2 and illustrates two scart connections 4, 6. The printed circuit board is provided in data processing apparatus such as for example a broadcast data receiver which is provided to receive and process video and/or audio and/or auxiliary data. Shown connected to the scart connections is a connector 8. The connector is provided with a range of outputs consisting, in this embodiment,

of two Mini Din S-VHS connectors 9, 10 and six phono connectors indicated by the reference numeral 12. This therefore means that the connector, which is typically connected into the scart connections 4 and 6 on the printed circuit board 2 at right angles thereto, can be used selectively. Thus, if the apparatus which concludes the printed circuit board 2 is to be used in a market where other associated apparatus is provided with scart connectors, then the connector 8 in accordance with the invention need not be used. However, if the apparatus is to be provided in a country where connectors other than scart connectors are provided for other apparatus, then the connector 8 can be attached and connected into the scart connections 4 and 6 on the printed circuit board 2 at the time of manufacture to expose the outputs 9, 10, 12 as illustrated in Figure 2 for the selective attachment of the connectors in the required format thereto.

This therefore means that the assembly of the apparatus at the time of manufacture is simplified and that a uniform printed circuit board in the apparatus can be utilised.

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